GPS-202D GPS WATCH TRACKER
User's Manual
(V1.0)

Chapter 1 Welcome to Use It

1.1 About the Product

Welcome to use the GPS-202D watch GPS Tracker. This exquisite watch is designed for the elderly/children positioning and guarding, businessmen safety precautions and field personnel management. At the same time, it is available with GPS/GPRS function and GSM/SMS/GPRS communication with a quick signal receiving speed.

1.2 Safety Considerations

To ensure your safety, please read the following Safety Considerations carefully：

1.2.1 Storage Considerations

- Don't put this product directly in the sun or in a dusty place or pile it with other electronic products for fear of damage. Keep it off the equipments with strong electromagnetic radiation or a strong magnetic field as far as possible.
- Don't put its batteries, terminal or charger in a microwave oven or a high-pressure device for fear of such accidents as circuit damage or fire.
- Don't put the terminal on an uneven or unsteady table for fear of malfunction or damage if it drops on the ground.
- Keep the product off dampness and water.

1.2.2 Batteries Operating Instructions

- When the product is first used, please use up the battery power and charge the battery for 2-3 times for not less than 12 hours each time, so as to ensure the battery in good condition.
- Please charge the battery with the charger provided by our company. All damages due to the use of any other charger are on the user’s account.
- Don’t drop the batteries in fire for fear of burning or explosion of the batteries.
- Don’t put any stress on the batteries during battery installation, or the batteries will be subject to leakage, overheat, cracking or burning.
- Don’t dismantle or refit the batteries for fear of leakage, overheat cracking or burning.
- Don’t use or store batteries in a hot place, such as by the fire or a heater, for fear of leakage, overheat, cracking or burning.
- In case of such abnormalities as discoloration and a rise in temperature when the battery is used, charged or stored, please stop use and replace it.
- Keep the batteries of dampness for fear of overheat, smoking or corrosion.

1.2.3 Whole System Operating Instructions

- Don’t dismantle or refit the machine on your own. Our company is not responsible for any damage due to any illegal operation.
- Don’t use the terminal near an electronic device with weak signals or high precision, or the radio wave interference might cause wrong operation on the electronic device or other problems。
- Don’t put the terminal too close to such magnetic objects as a magnetic card, or the radiation waves it produces might remove the information saved on the floppy disk, the magnetic card or the credit card.
- Keep the batteries of dampness. The entrance of water or other liquids will result in overheat, creep age or malfunction of the terminal.

1.2.4 Charger Operating Instructions

- Please use the 220V alternating current only for fear of leakage or burning of or damage to the terminal or the charger.
- Don’t short out the charger for fear of electrical shock or smoking of or damage to the charger.
- In case of the splashing of water or other liquids into the charger during the battery charging, please disconnect the charger at once for fear of overheat, burning, electrical shock or malfunction of the charger.
- Don’t dismantle or refit the charger for fear of personal injury, electrical shock, fire or damage to the charger.
- Don’t use the charger in a wet place, such as a bathroom, for fear of electrical shock, fire or damage to the charger.
- Don’t touch the charging charger with your wet hand for fear of electrical shock.

1.2.5 Maintenance Considerations

- As the terminal, the batteries and the charger are not waterproof, don’t use them in a highly wet place (such as a bathroom) or in the rain.
- Only the maintenance personnel specially trained by our company are allowed to repair the product. Any unauthorized disassembly or repair on this product might disable the warranty or lead to damage to this product.

1.2.6 Network Service

As the function realization of the product depends on the mobile network service，one must first apply to the mobile service providers for the GPRS network service for the mobile phone concerned and that for the SIM card inside the terminal. For more information about the usage and charge of the SIM card, please consult the local mobile network service providers.

1.3 About GPS

The following is about how to use the GPS device. Please read it before using the device, so as to increase its service efficiency.

1.3.1 GPS Definition

GPS is the abbreviation of Global Positioning System, a system developed by the US Department of Defense and jointly used and managed by the US Department of Transportation and the former, defining the location by means of satellites. GPS system consists of 24 satellites, through which the desired information is received by means of electric waves to work out the current location. Generally the error range for GPS positioning is below 15 meters.

1.3.2 About Signals

When it is first used or used after long idling, it might take 1-2 minutes to electrify the GPS antenna and check the system. At the same time, try your best to keep the screen at a right angle with the sky. Under some special circumstances (tunnels, viaducts, underpasses, metro or building complex), it might be hard for the device to work well on positioning.

1.3.3 About the Search System

If the system is restarted when the locator is moving fast, the search positioning will be difficult. So it is more advisable to stop it for a period of time.

1.4 Maintenance and Repair

- Don’t dismantle any part of the system for fear of malfunction. If there is any problem, please turn to the local agent or after service center.
- Don’t put the mainframe directly in the sun, dampness, dust or heat. When it is used at the edge of normal temperature, its normal operation will be affected, but that does not mean any failure or error. Just take it easy.
- Avoid abnormal violent vibration or impact.
- Don’t pull out the SIM card randomly. After inserting the SIM card when the system is turned on, one must restart the system, or the device cannot work well.
- Any dirt in the socket will lead to bad contacts and power failure, thus disabling further charging. So please clean the socket regularly.
- Often clean the terminal or the charger with a clean dry rag.

Chapter 2 General Introduction

2.1 Appearance

（Figure 1）

➢ 2.2 Functions

➢ Guardianship party can get the location information directly through SMS query, you can choose to use monitoring system and non-use monitoring system.

➢ Call ,dual-entry call function.

➢ Auto-answer

➢ Low-power alarm

➢ SOS Emergency Alarm

➢ GPS timing function

2.3 Hardware

➢ Charging voltage：110-220V

➢ Working temperature -20°—65°

➢ Humidity: 5%-95%

➢ Limited working temperature：-30°C -- -40°C, +80°C-- +85°C

➢ Storing temperature：-45°C -- +90°C

➢ Start-up time, hot start: <1.5s Warm start: <34s Cold start: <35s(Autonomous)

➢ Accurate positioning: 3.0 m 2D-RMS , DGPS: 2.5 m

➢ Speed Positioning: 0.1m/s, DGPS:0.05m/s

➢ Power consumption: standby 48mA（Depending on the system network state and the user’s operation method）

➢ Charging port: DC 5V 3A

2.4 Appearance Introduction

There are five keys on the terminal. The upper left green button is used to turn on/off the device, the lower left blue button is the mode (interface) shifting key, the upper right button is the emergency dial（SOS）key, and the central right button and the lower right key are dial keys.（See Figure 2.）

（Figure 2）

3.1 Charging

- When the product is first used, please use up the battery power and charge the battery for 2-3 times for not less than 12 hours each time, so as to ensure the battery in good condition.
- Its normal charging time is 2-3 hours.
- The product is available with its own charger. Please use the charger provided by our company for charging.
- Insert the plug into the 220V alternating current for charging. During charging, the charging icon will keep flashing.

Remarks：

- ◆ If the device is idle for a long time, the batteries in it might be of lower power than the initial power. Then it will take a few minutes to charge the batteries to resume the normal condition.
- Low Cell：When the battery power is almost used up during normal operation or when the device is turned on, the terminal will give out the low cell alarm. After a while, the terminal will be automatically power off unless the batteries are charged in time.

3.2 Buy the SIM Card

When buying the SIM Card, make sure that it is available with the SMS and GPRS services.

3.3 Insert the SIM card

When the device is power off, remove its rear cover and insert the SIM card.

4.1 Keys and Jacks

- Upper left-Key 1 Power on/off
- Lower left-Key 2 MODE
- Jack 3 Earphone/charger
- Upper right-Key 4 SOS alarm
- Central right-Key 5 Phone 1
- Lower right-Key 6 Phone 2

4.2 Operation

4.2.1 Turn On

- Hold on to Key 1 to turn on the device and enter the main interface.

4.2.2 Turn Off

- Hold on to Key 1 to turn off the device.

4.2.3 Interface Shift

Push Key 2 to shift.

4.2.4 Emergency Alarm

Push Key 4 for emergency alarm operation, and the interface indication will be

. Then the watch will dial the three phone numbers preset in it in turn.（For more information about the setting method, seethe appendix.）If the first phone number is got through, the watch will enter the call interface (see the image): . When the call is over, the watch will no longer call the other two phones. If the first number is not answered or power off, the terminal will begin to dial the second phone number, and so on.

4.2.5 Terminal Active Dial-up

Hold on to Key 5, and “Call 2” indication will appear on the interface, which shows that the watch is dialing the second phone number preset in it. When the phone is got through, the watch will enter the call interface.

Hold on to Key 6, and “Call 3” indication will appear on the interface, which shows that the watch is dialing the third phone number preset in it. When the phone is got through, the watch will enter the call interface.

Remarks： For more information about the setting of the emergency alarm call and the Call 2 and Call 3 commands, please refer to the appendix.

4.2.6 Calling and Auto-answer

If there is an incoming call on the terminal, the interface will be： . Then push the SOS key to get through the call. If the call is not got through manually, it will be automatically answered 30 seconds later. At the same time, one can also push the power on/off key to ring off.

4.2.7 Point to Point inquiry

Use one of the stored phone numbers to send SMS "123" to the GPS-202D installed SIM card number. After the pre-existing mobile phone number will receive a location information, the information terminal the current geographical location. Information includes latitude and longitude location information and time.

5. Operation

1. How to get its location (Default Password: 0000)

- **To get location (address) by SMS Command: 988+Password**
  - E.g. you can send **988000** from your cell phone to GPS watch and you will get a SMS reply as below: ShenNan Road, Nanshan Hi-tech Park, Shenzhen, China 5180057

- **To get location through Online tracking platform:**

Visit http://gps.webtrackings.com and input your login ID and password and you can see its location on the web. Contact us for login ID and password.

2 Set Master’s mobile phone number (for SOS calling)

SMS Command: **#710#mobile phone number # password##**

For example, I want to set my own cell phone number 18675506905, I need to send **#710#18675506905#0000##**

3 Set call 1, call 2 phone numbers. There is call 1 and call 2 buttons in the watch’s right side. When you press call 1, it will it like making a calling by mobile phone.

NOTE: You must set 3 users’ phone number in this command. Otherwise it will not complete.

SMS Command: #711#call 1# call 2 # call 3 # password##

E.g. I want to set 3 users’ phone number: 88990011, 88990022, 88990033, i need to send

#711#88990011#88990022#88990033#0000##

4 **To adjust volume of calling. During calling, you can press upper right button (call 1 button) to max.**

5. SOS Help (emergency help)

When the watch holder needs help, he can press SOS button and it will send a SMS with location (coordinates) to the Master's phone and the 3 phones (Call 1, call 2, call 3)

6. Function settings

Press mode button, you can shift between coordinates and watch display. Long pressing it, you can see

- **Time/date setting**
- **Time clock setting**
- **Language**
- **GPS Time setting**

7. Voice monitoring

SMS Command: **555+password**

After send **555000**0, GPS watch will call you back and you can answer the phone to listen in the sound nearby. But only the 4 users whose phone numbers have been already stored inside the watch can send this SMS Command to monitor sound.

8. Timing GPRS data upload to server

SMS Command: #730#time interval#quantity#passsword##

E.g. if you want GPS Watch to send 3pcs of coordinates every 30 seconds, you can send **#730#30#3#0000##**

You can also send **#730#0#1#0000##** to enable GPRS to save power.

9. To change password

SMS Command: **#770#new password#old password##**

If you want to change old password 0000 to a new password 1234, you can send **#770#1234#0000##**

NOTE: The password must be 4 digitals.

10 To name your GPS Watch: you can give a name to your GPS Watch.

SMS Command: **#801#letter/digitals (4—20 bites)#password##**

For example, if you want to name your GPS Watch as UVI, you can send **#801#UVI#00000##**

11 Low power alarm: It will send you SMS alert when power is low

12 More SMS Commands

#901## to check users phone number

E.g: #18675506905#0000##0000#@13926548311#13510120516#13631670685#356823032228376##

- **18675506905: Master's phone number**
- **13926548311: Call 1**
- **13510120516: Call 2**
- **13631670685: Call 3**
- **356823032228376: This GPS watch's IMEI number**

#902## to read GPRS settings

For example:

#5#20#3@internet.be#mobistar#mobistar#183.62.138.9#2332##2010/12/09 16:27CRT19N_CRT_V0.40_BLUE

It tells you that this GPS watch set APN, APN user and APN password and server's IP & Port and version

- **#5#20#3:** It is Mode 5 and uploads GPRS data 3pcs every 20 seconds to server 183.62.138.9 (port 2332)
- **APN:** internet.be
- **APN user:** mobistar
- **APN Pass:** mobistar
- **Server's IP:** 183.62.138.9 Port: 2332
- **Sample time**: 2010/12/09
- **Firmware version:** 16:27CRT19N_CRT_V0.40_BLUE

To enable/disable GPRS and A-GPS function

#904## to enable GPRS
#905## to disable GPRS
#918## to enable A-GPS
#919## to disable A-GPS (default)

FAST GUIDE TO USE GPS-202D GPS WATCH

Preparation work

- Buy a SIM Card that supports SMS and GPRS and buy more credit.
- Insert it into GPS WATCH and fix it with the metal card slot and put battery to cover it and fix the back cover.
- Go to outside and power it on to search better GPS signal.

Operation starts

Step 1, call it with your cell phone to make sure it is connected and ready to work.

If you can hear ring, it means SIM Card is installed correctly and ready to work.

Step 2, send SMS Commands to enable it work.

SMS Command: #710#mobile phone number # password##

For example, if your cell phone number is 186755069059, you can send the SMS like this:

#710#18675506905#0000##

Note: in this SMS command, please pay much attention to following explanation

- **(star) is a part of command**
- **18675506905 is your own cell phone number which is set to be the SOS number. When the SOS Button is pressed, it will call your cell phone number 83315079**
- **0000 is default password of this GPS Watch tracker, you can change it later**

Second SMS: used to change APN if you use another GSM carrier's SIM Card.

For example, in China we use China mobile's SIM Card for GPRS connection, when this GPS watch sells to other countries, and they use their local SIM CARD, such as Mobistar's SIM Card

You need to send SMS Command: #802#internet.be#mobistar#mobistar#0000##

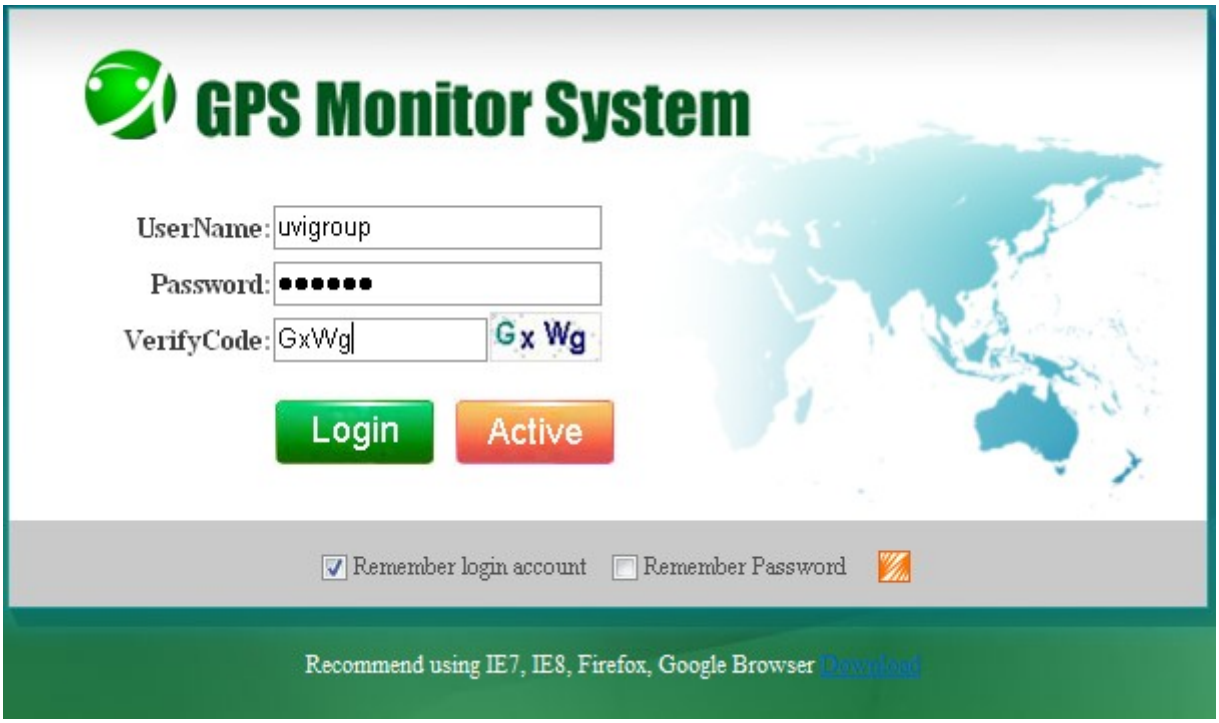
Its commands format is: #802 #APN#APN USER#APN PASS#PASSWORD##

APN: internet.be

APN user: mobistar

APN Pass: mobistar

If you do not want to change time interval, you can directly visit http://gps.webtrackings.com



And login with your own User Name and password to access to web tracking software. If you have any questions, please contact our technical support team: kc@uvigroup.com.cn

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